Applicants : Christoph Mecklenbräuker, et al., et al.   Attorney's Docket No.: 12758-026001
Serial No. : 09/856,424   Client Docket No.: 1998P05843WOUS
Filed   : May 21, 2001
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AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method ~~of transmitting data for services~~, comprising:

specifying a ~~combination of~~ first transport format ~~formats~~ for ~~each of the services~~ a first service and a second transport format for a second service, the first service having a first type of data rate dynamics and the second service having a second type of data rate dynamics;

signaling, ~~a transport format of services with a first type of data rate dynamics~~ in a first channel, the first transport format for the first service;

signaling, ~~a transport format of services with a second type of data rate dynamics~~ in a second channel, the second transport format for the second service, the first channel and the second channel comprising separate channels; and

transmitting data for the first service and data for the second service over a common physical channel based on the first transport format and the second transport format ~~combination of transport formats for the services; and; evaluating the data at a receiver based on the combination of transport formats~~.

2. (Currently Amended) The method of claim 1, wherein the data is transmitted ~~transmission takes place~~ via a radio interface of a radio communication system.

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3. (Currently Amended) The method of claim 2, wherein the radio interface is defined by a comprises broadband frequency channels that include the first and second channels channel[[,]]; and

wherein the plurality of physical first and second channels are separated by at least one of a spread code and a time slot one or more of spread codes and time slots.

4. (Previously Presented) The method of claim 1, wherein the second channel comprises a monitoring channel.

5. (Currently Amended) The method of claim 1 [[4]], wherein the first type of data rate dynamics are higher than the second type of data rate dynamics corresponds to a fluctuation in data rate over time, the first type of data rate dynamics having a higher fluctuation in data rate over time than the second type of data rate dynamics; and[[,]]

wherein signaling the second transport format in the second channel takes place occurs if the a data rate for the second type of data rate dynamics changes.

6. (Currently Amended) The method of claim 1, further comprising:

mapping the data for the first and second services onto a coded common transport channel, the coded common transport channel corresponding to the common physical channel; and

~~splitting the~~ spreading data on ~~of~~ the coded common transport channel over a plurality of physical channels.

7. (Currently Amended) The method of claim 1, further comprising:

signaling a partial information item, the partial information item corresponding ~~relating~~ to ~~the~~ a combination of ~~the~~ transport formats for services with ~~high~~ a specific type of data rate dynamics, the specific type of data rate dynamics comprising the first type of data rate dynamics, ~~wherein~~ the partial information item ~~is~~ comprising a binary code having a number that is less than a total ~~amount~~ number of permitted combinations of ~~all the~~ services.

8. (Currently Amended) The method of claim 7, wherein the data is transmitted over the common physical channel in frames; and

wherein the partial information item is transmitted in ~~each frame~~ the frames ~~of data transmission over the common physical channel~~.

9. (Currently Amended) The method of claim 7, wherein the data is transmitted over the common physical channel in frames; and

wherein the method further comprises ~~comprising:~~ setting ~~an individual~~ a signaling capacity ~~within the one of the plurality of physical channels~~ in at least one of the first channel and the second channel ~~used for signaling data for a service with data rate dynamics~~; and

wherein ~~transmitting~~ the partial information item is signaled via ~~over~~ a plurality of

frames.

10. (Currently Amended) A communication system comprising:

data transmission means for transmitting data for a ~~combination of services~~ first service

and for a second service over a common physical channel, the first service having a first type of

data rate dynamics and the second service having a second type of data rate dynamics; and

signaling means for:

(i) signaling, ~~a transport format of services with a first type of data rate~~

~~dynamics~~ in a first channel, the first transport format for the first service; and

(ii) signaling, ~~a transport format of services with a second type of data rate~~

~~dynamics~~ in a second channel, the second transport format for the second service,

the first channel and the second channel comprising separate channels; ~~and~~

~~evaluation means at the receiver for evaluation data based on the combination of~~

~~transport formats.~~

11. (Currently Amended) The communication system of claim 10, wherein data rate

dynamics corresponds to a fluctuation in data rate over time, the first type of data rate dynamics

having a higher fluctuation in data rate over time than the second type of data rate dynamics ~~the~~

~~first type of data rate dynamics are higher than the second type of data rate dynamics~~.

12. (Currently Amended) The <u>communication</u> system of claim 10, wherein the second channel comprises a monitoring channel.

13. (Currently Amended) The <u>communication</u> system of claim 11, wherein the signaling means signals the <u>second</u> transport format if ~~the~~ <u>a</u> data rate <u>changes</u> for the second type of data rate dynamics ~~changes~~.

14. (Currently Amended) The <u>communication</u> system of claim <u>10</u> ~~11~~, further comprising:

mapping means for mapping ~~the~~ data for the <u>first and second</u> services onto a coded common transport channel<u>, the coded common transport channel corresponding to the common physical channel</u>; and

~~splitting~~ means for ~~splitting~~ <u>spreading</u> ~~the~~ data ~~of~~ <u>on</u> the coded common transport channel over a plurality of physical channels.

15. (Currently Amended) The <u>communication</u> system of claim 10, wherein the data transmission means comprises a radio communication system.

16. (Currently Amended) The <u>communication</u> system of claim <u>10</u> ~~15, further comprising: signaling means for signaling~~ <u>wherein the signaling means signals</u> a partial information item<u>, the partial information item corresponding</u> ~~relating~~ to ~~the combination of the~~

currently used transport formats for services with high a specific type of data rate dynamics, the

specific type of data rate dynamics comprising the first type of data rate dynamics, wherein the

partial information item comprising is a binary code having a number which that is less than a

total amount number of permitted combinations of all the services.

17. (Currently Amended) The communication system of claim 16, wherein the data is

transmitted over the common physical channel in frames, and the partial information item is

transmitted in each frame the frames of data transmission over the common physical channel.

18. (Currently Amended) The communication system of claim 16, wherein the data is

transmitted over the common physical channel in frames; and

        wherein the communication system further comprises comprising:

                setting means for setting an individual a signaling capacity within in at least one

of the first channel and the second channel; and

                transmitting means for transmitting the partial information item over via a

plurality of frames.

19. (Currently Amended) The method of claim 1, wherein data rate dynamics

corresponds to a fluctuation in data rate over time, the first type of data rate dynamics having a

higher fluctuation in data rate over time than the second type of data rate dynamics the first type

of data rate dynamics are higher than the second type of data rate dynamics.

20. (Currently Amended) The method of claim 19, further comprising:

detecting a change in ~~the~~ a data rate for the first type of data rate dynamics; and

in response to ~~detecting~~ the change, signaling a new transport format in the second

channel.

21. (Currently Amended) The method of claim 19, further comprising:

signaling a standard data rate at ~~the~~ a beginning of a connection to a receiver, the receiver

for receiving transmitted data for the first service and the second service; and

signaling a data rate of zero at ~~the~~ an end of ~~a~~ the connection.

22. (New) The method of claim 1, further comprising:

evaluating the data at a receiver based on the first and second transport formats.

23. (New) The communication system of claim 10, further comprising:

a receiver to receive the data from the data transmission means, the receiver comprising

evaluation means for evaluating the data based on the first and second transport formats